

Form PTO-1449 (Modified)
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTORNEY DOCKET NO.:
5903-144APPLICATION NO.
08/813,780

INFORMATION DISCLOSURE CITATION

(Form PTO-1449 Modified 5/95)
(Use several sheets if necessary)APPLICANT:
James Golinveaux et al.FILING DATE:
March 7, 1997

GROUP ART UNIT: 3102

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

GAH	1.	Underwriters Laboratories, Inc., UL 1767, "STANDARD FOR SAFETY, EARLY-SUPPRESSION FAST-RESPONSE SPRINKLERS", First Edition, February, 1990.
GAH	2.	Factory Mutual Engineering Corp., "Loss Prevention Data, 2-2", "EARLY SUPPRESSION FAST RESPONSE SPRINKLERS", April, 1987.
GAH	3.	Factory Mutual Research, "APPROVAL STANDARD, EARLY SUPPRESSION FAST RESPONSE AUTOMATIC SPRINKLERS", June, 1986.
GAH	4.	"Automatic" Sprinkler Corporation of America product sheets entitled "Automatic ESFR Glass Bulb Sprinkler", February, 1988, (pp. J 5.3, J 5.4)
GAH	5.	ASCOA Fire Systems data sheets entitled, "Automatic ESFR Glass Bulb Sprinkler", March, 1992, (pp. 1.1, 1.2).
GAH	6.	Grinnell Corporation data sheets entitled "EARLY SUPPRESSION FAST RESPONSE SPRINKLERS/ MODEL ESFR-1 PENDENT, 14.3 K-Factor", April, 1988.
GAH	7.	Reliable Automatic Sprinkler product announcement, "ESFR, MODEL H EARLY SUPPRESSION FAST RESPONSE SPRINKLER", October, 1992, (3 pp. total).
GAH	8.	Central Sprinkler Company catalog sheets entitled, "Central ESFR-1 3-93/ESFR Early Suppression Fast Response", 4 pp. March, 1993.
GAH	9.	Drawing entitled "INTERNATIONAL JUMBO SPRINKLER HEAD - DEFLECTOR", DWG. No. 1-117, AUTOMATIC SPRINKLER CO. OF AMERICA, March, 1926 (1 pg.).
GAH	10.	Sheet entitled "GRINNELL JUMBO SPRINKLER ISSUE A", Grinnell Corp., February, 1969, (1 pg.).
GAH	11.	Drawing entitled "SOLDER TYPE - ISSUE 'A' 1 1/4" GRINNELL JUMBO SPRINKLER YOKE, BODY, STRUT, DIAPHRAGM AND DISC", GENERAL FIRE EXTINGUISHER COMPANY, April, 1917 (1 pg.).
GAH	12.	Drawing entitled "1" GRINNELL JUMBO SPRINKLER DETAIL SOLDER TYPE ISSUE 'A'", GENERAL FIRE EXTINGUISHER CO., April, 1917, (1 pg.).
GAH	13.	N.J. Thompson, <u>FIRE BEHAVIOR AND SPRINKLERS</u> , Chapter 6 "AUTOMATIC SPRINKLER PROTECTION", NATIONAL FIRE PROTECTION ASSOCIATION, 1964, Cover, Foreward, Table of Contents and pages 72-91.
GAH	14.	NEWSLETTER for FIRE PROTECTION ENGINEERS AND INDUSTRY, No. 11, July, 1965, Orinda, California (8 pp.).
GAH	15.	D.G. Goodfellow, et al., <u>TECHNICAL REPORT</u> entitled "OPTIMIZATION OF SPRINKLER PROTECTION FOR UNITED STATES POSTAL SERVICE III. PROTECTION OF PLASTIC LETTER TRAYS", Factory Mutual Research Corporation, October, 1971 (39 pp.).

EXAMINER

Gary Hoge

DATE CONSIDERED

5/20/98

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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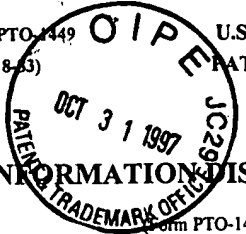
GA	16.	D.G. Goodfellow, TECHNICAL REPORT entitled "OPTIMIZATION OF SPRINKLER PROTECTION FOR UNITED STATES POSTAL FACILITIES/IV PROTECTION OF PLASTIC LETTER TRAYS WITH 0.64-IN. RETROFIT SPRINKLERS", Factory Mutual Research Corporation, July, 1974 (30 pp. with cover and introductory pages).
GA	17.	E.W.J. Troup, TECHNICAL REPORT entitled "NEW DEVELOPMENTS IN CEILING-LEVEL PROTECTION FOR THE HIGH-CHALLENGE FIRE", Factory Mutual Research Corporation, January, 1974.
GA	18.	P.J. Chicarello et al., TECHNICAL REPORT entitled "LARGE-SCALE FIRE TEST EVALUATION OF EARLY SUPPRESSION FAST RESPONSE (ESFR) AUTOMATIC SPRINKLERS, Factory Mutual Research Corporation, (cover - p. 18 and pp. 122-128), May, 1986.
GA	19.	C. Yao, "The Development of the ESFR Sprinkler System", <i>Fire Safety Journal</i> , Elsevier Scientific Ltd. Kidlington, Oxford, U.K., Volume 14, No. 1, pp. 65-73, 1988.
GA	20.	C. Yao, "OVERVIEW OF FMRC'S SPRINKLER TECHNOLOGY RESEARCH", Factory Mutual Research Corp., May, 1992.
GA	21.	APPROVED PRODUCT NEWS, Factory Mutual Engineering Corp., Vol. 4, No. 2, December, 1988, pp. 1-5, 8-12 and 16.
GA	22.	FIRE PROTECTION HANDBOOK, Seventeenth Edition, National Fire Protection Association, 1991, Title page, inner page, Table of Contents pg. IX and pp. 5-127 through 5-163 and 5-174 through 5-197.
GA	23.	K. Bell, "PRESENTATION TO AMERICAN FIRE SPRINKLER ASSOCIATION - LARGE K-FACTOR SPRINKLERS", November, 1992, (59 pp. total: 19 pp. text and 40 pp. slide photocopies).
GA	24.	Color photocopies of six color photographs of sprinkler cast with "I.S. Co." on deflector and "PAT.03" on the body and "1903" stamped on the release link (labeled June, 1995) (2pp.).
GA	25.	Color photocopies of six color photographs of sprinkler cast with "GLOBE" and "280" on body, "G A S Co." on deflector and stamped "1926" on release link (labeled June, 1995) (2 pp.).
GA	26.	Color photocopies of five color photographs of Grinnell Corporation "Jumbo A" automatic sprinkler - 1 1/4" orifice, (labeled June, 1995) (2 pp.).
GA	27.	Color photocopies of five color photographs of Grinnell Corporation "Jumbo A" automatic sprinkler - 1" orifice, (labeled June, 1995) (2 pp.) (body painted red).

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Gay Hye

DATE CONSIDERED 5/21/97

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Form PTO-1449 (REV. 8-83) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NO.: 5903-144		APPLICATION NO.: 08/813,780			
<div style="text-align: center;">  <p>INFORMATION DISCLOSURE CITATION</p> <p>Form PTO-1449 Modified 5/95) (Use several sheets if necessary)</p> </div>		APPLICANT: James Golinveaux et al.					
		FILING DATE: March 7, 1997		GROUP ART UNIT: 3102			
U.S. PATENT DOCUMENTS							
EX. INIT	DOCU-MENT	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
GA		3,525,402	08/1970	Hattori	11	11	
GA		3,768,736	10/1973	Cox	11	11	
GA		3,888,313	06/1975	Freeman	11	11	
GA		3,904,126	09/1975	Allard	11	11	
GB		4,091,873	05/1978	Werner	11	11	
GA		4,099,675	07/1978	Wohler et al.	11	11	
GA		4,136,740	01/1979	Groos et al.	11	11	
GA		4,279,309	07/1981	Fischer et al.	11	11	
GA		4,405,018	09/1983	Fischer	11	11	
GA		4,580,729	04/1986	Pounder	11	11	
GA		4,800,961	01/1989	Klein	11	11	
GA		4,901,799	02/1990	Pepi et al.	11	11	
GA		4,930,578	06/1990	Barnett et al.	11	11	
GA		5,366,022	11/1994	Meyer et al.	11	11	
GB		5,579,846	12/1996	Meyer et al.	11	11	
GA		5,584,344	12/1996	Meyer et al.	11	11	
GB		5,609,211	03/1997	Meyer et al.	11	11	
GA		5,664,630	09/1997	Meyer et al.	11	11	
EXAMINER <i>Gary Hoge</i>				DATE CONSIDERED <i>5/26/98</i>			
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NOV 21 1997 (Use several sheets if necessary)

[illegible]

Gary Hoge

DATE CONSIDERED 5/20/99

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